

Data Path : W:\HPCHEM1\MSVOA L\DATA\VL041218\
 Data File : VL031878.D
 Acq On : 12 Apr 2018 23:19
 Operator : SY/AP
 Sample : VSTDCCC010
 Misc : 400ml/MSVOA L
 ALS Vial : 1 Sample Multiplier: 1

Instrument :
 MSVOA_L
 ClientSampleID :
 VSTDCCC010EC

Manual Integrations
 APPROVED

MMDadoda
 4/15/2018 3:08:19 PM

Quant Time: Apr 14 04:15:16 2018
 Quant Method : W:\HPCHEM1\MSVOA L\METHODS\VL041218AIR.M
 Quant Title : AIR ANALYSIS BY METHOD TO-15 Instrument: MSVOA_L Fri Apr 13 2018
 QLast Update : Fri Apr 13 16:50:02 2018
 Response via : Initial Calibration

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	5.89	49	1356522	10.00	ppbv	0.00
33) 1,4-Difluorobenzene	7.43	114	2875168	10.00	ppbv	0.00
55) Chlorobenzene-d5	12.40	117	3058432m	10.00	ppbv	0.00

System Monitoring Compounds

68) 1-Bromo-4-Fluorobenzene	14.73	95	2306014	9.38	ppbv	0.00
Spiked Amount	10.000	Range	65 - 135	Recovery	=	93.80%

Target Compounds					Ovalue
2) Dichlorodifluoromethane	3.16	85	1484679	5.306	ppbv 98
3) Chlorodifluoromethane	3.10	51	1116129	7.074	ppbv 99
4) Chloromethane	3.26	50	657134	8.159	ppbv 95
5) Vinyl Chloride	3.39	62	705064	7.775	ppbv 98
6) Bromomethane	3.61	94	477762	8.016	ppbv 99
7) Chloroethane	3.70	64	289008	7.994	ppbv 98
8) Dichlorotetrafluoroethane	3.31	85	1759213	7.658	ppbv 100
9) Propene	3.13	41	491344	9.007	ppbv 98
10) Heptane	8.39	43	1608364	9.087	ppbv 100
11) Trichlorofluoromethane	4.11	101	2332143	8.502	ppbv 98
12) 1,1,2-Trichlorotrifluoroet	4.67	101	1493783	8.380	ppbv 100
13) Ethanol	3.75	45	123465	6.669	ppbv 98
14) Bromoethene	3.89	108	637256	9.480	ppbv 99
15) Acetone	4.01	43	1591936	7.625	ppbv 98
16) 1,3-Butadiene	3.46	39	685750	8.877	ppbv 99
17) tert-Butyl alcohol	4.47	59	666529	7.725	ppbv 98
18) 1,1-Dichloroethene	4.47	96	675103	8.816	ppbv 95
19) Isopropyl Alcohol	4.13	45	1035127	8.876	ppbv # 99
20) Methylene Chloride	4.52	84	620761	8.163	ppbv 91
21) Allyl Chloride	4.59	41	1092506	9.160	ppbv 98
22) trans-1,2-Dichloroethene	5.09	96	718048	9.046	ppbv 98
23) Vinyl Acetate	5.28	43	2068193	9.769	ppbv 99
24) 1,1-Dichloroethane	5.22	63	1910539	9.058	ppbv 100
25) Ethyl Acetate	5.90	43	2952678	9.068	ppbv 100
26) Hexane	5.91	57	1401774	9.233	ppbv 99
27) Carbon Disulfide	4.74	76	1773518	8.998	ppbv 100
28) Methyl tert-Butyl Ether	5.24	73	1808670	9.681	ppbv 99
29) Chloroform	5.98	83	2235923	8.688	ppbv 100
30) Cyclohexane	7.39	84	995520	9.182	ppbv 98
31) cis-1,2-Dichloroethene	5.77	61	1304925	9.488	ppbv 99
32) 1,1,1-Trichloroethane	6.76	97	2018133	8.052	ppbv 99
34) 2-Butanone	5.46	43	1931183	9.682	ppbv 98
35) Carbon Tetrachloride	7.28	117	2045099	8.190	ppbv 97
36) Benzene	7.15	78	2410727	9.322	ppbv 97
37) 1,2-Dichloroethane	6.55	62	1650275	8.576	ppbv 99
38) Trichloroethene	8.11	130	962234	9.166	ppbv 96
39) 1,2-Dichloropropane	7.88	63	867633	9.025	ppbv 98
40) 1,4-Dioxane	8.10	88	358210	9.180	ppbv 85
41) Tetrahydrofuran	6.28	42	979450	10.610	ppbv 98
42) Bromodichloromethane	8.06	83	2054628	8.924	ppbv 99
43) Methyl Methacrylate	8.28	69	891064	9.792	ppbv 97

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Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
44) 2,2,4-Trimethylpentane	8.13	57	4136898	9.288	ppbv	99
45) t-1,3-Dichloropropene	9.57	75	1242698	10.529	ppbv	96
46) cis-1,3-Dichloropropene	8.98	75	1524714	10.107	ppbv	94
47) 1,1,2-Trichloroethane	9.77	97	1014421	8.878	ppbv	98
48) Dibromochloromethane	10.61	129	1714915	9.287	ppbv	100
49) Bromoform	13.36	173	1337147	9.406	ppbv	99
50) 4-Methyl-2-Pentanone	9.02	43	2098054	9.190	ppbv	100
51) 2-Hexanone	10.42	43	1868180	9.362	ppbv #	100
52) Tetrachloroethene	11.53	164	884332	8.777	ppbv	95
53) Toluene	10.10	91	2859491	9.915	ppbv	99
54) 1,2-Dibromoethane	10.92	107	1537880	9.272	ppbv	100
56) 1,1,1,2-Tetrachloroethane	12.44	131	1181425	8.209	ppbv	98
57) Chlorobenzene	12.46	112	2157422	8.320	ppbv	98
58) Ethyl Benzene	13.02	91	3987392	9.388	ppbv	100
59) m/p-Xylene	13.30	91	6458109m	17.512	ppbv	
60) o-Xylene	14.01	91	3321026	9.009	ppbv	100
61) Styrene	13.84	104	736552	10.493	ppbv	100
62) Isopropylbenzene	14.98	105	4158461	8.783	ppbv	100
63) 1,1,2,2-Tetrachloroethane	13.99	83	2172558	7.665	ppbv	99
64) n-propylbenzene	15.88	120	1020443	8.865	ppbv	100
65) tert-Butylbenzene	17.07	119	3591680	8.820	ppbv	99
66) Benzyl Chloride	17.31	91	383300	10.446	ppbv	99
67) sec-Butylbenzene	17.61	105	5081981	8.662	ppbv	100
69) p-Isopropyltoluene	17.97	119	4081749	8.975	ppbv	99
70) n-Butylbenzene	18.87	91	4126614	8.714	ppbv	100
71) 2-Chlorotoluene	15.77	91	3095257	9.041	ppbv	99
72) 4-Ethyltoluene	16.15	105	3340268	8.867	ppbv	100
73) 1,3,5-Trimethylbenzene	16.31	105	3048078	8.839	ppbv	99
74) 1,2,4-Trimethylbenzene	17.08	105	3195549	8.301	ppbv	98
75) 1,3-Dichlorobenzene	17.32	146	1901695	8.055	ppbv	99
76) 1,4-Dichlorobenzene	17.47	146	1908050	8.331	ppbv	99
77) 1,2-Dichlorobenzene	18.14	146	1933033	8.315	ppbv	99
78) Hexachloro-1,3-Butadiene	23.69	225	985313	11.037	ppbv	99
79) Naphthalene	22.59	128	2007218m	9.263	ppbv	
80) Naphthalene, 2-methyl-	25.23	142	373664	8.834	ppbv	98
81) 1,2,4-Trichlorobenzene	22.32	180	1016791	8.458	ppbv	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

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